



SICK Sensor Intelligence.

**FIBERS** 

### LL3-LM32450 | Fiber-optic cables

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Ordering information

	Туре	Part no.
	LL3-LM32450	2073499

Illustration may differ

Other models and accessories -> www.sick.com/Fiber-optic\_cables

#### Detailed technical data

#### Features

Device type	Fiber-optic cables
Functional principle	Through-beam system
Fiber-optic head design	Smooth sleeve, Long end sleeve
Application	Standard
Compatible fiber-optic amplifiers	WLL80, WLL180, GLL170(T)
Sensing range max.	Depending on the fiber optic amplifier used
Minimal object diameter	0.5 mm
Optical fiber head	
Angle of dispersion	60°
Integrated lens	No
Compatibility tip adapters	No
Optical fiber	
Compatibility with infrared light	Yes <sup>1)</sup>
Adapter end sleeves required	No

 $^{1)}\ensuremath{\mathsf{Reduced}}\xspace$  sensing ranges possible when using a fiber-optic amplifier with infrared light.

#### Mechanics

Optical fiber head	
Light emission	Axial
Smooth sleeve diameter	5.8 mm
Optical fiber taper diameter	≥ 4 mm
Optical fiber taper length after 2 mm	≥ 11.4 mm
Optical fiber	
Fiber length	450 mm
Bending radius	20 mm
Dynamic flexibility (robotics)	No
Outside diameter, optical fiber cable connection	2.2 mm
Fiber arrangement	Singlefiber
Core structure	Singlefiber
Material	
Optical fiber head	Chrome-plated metal coil
Sheath	Polyvinylchlorid (PVC)
Fibers	Glass

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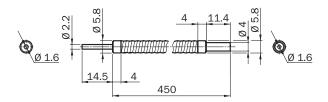
Weight	49 g	
Ambient data		
Ambient operating temperature	-10 °C +60 °C	
Classifications		
ECLASS 5.0	27270905	
ECLASS 5.1.4	27270905	
ECLASS 6.0	27270905	
ECLASS 6.2	27270905	
ECLASS 7.0	27270905	
ECLASS 8.0	27270905	
ECLASS 8.1	27270905	
ECLASS 9.0	27270905	
ECLASS 10.0	27270905	
ECLASS 11.0	27270905	
ECLASS 12.0	27270905	
ETIM 5.0	EC002651	
ETIM 6.0	EC002651	
ETIM 7.0	EC002651	
ETIM 8.0	EC002651	
UNSPSC 16.0901	39121528	
Sensing ranges with WLL180T		
Operating mode 16 µs	200 mm	
Operating mode 70 µs	550 mm	
Operating mode 250 µs	580 mm	
Operating mode 2 ms	580 mm	
Operating mode 8 ms	580 mm	
Note	Sensing ranges related to fiber-optic sensors with type of light: visible red light	
Sensing ranges with GLL170		
Operating mode 250 µs	305 mm	
Sensing ranges with GLL170T		
Operating mode 50 µs	623 mm	
Operating mode 250 µs	640 mm	

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Dimensional drawing (Dimensions in mm (inch))

LL3-LM32450



# SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is "Sensor Intelligence."

## WORLDWIDE PRESENCE:

Contacts and other locations -www.sick.com



Online data sheet

